



Department of Energy

**Ohio Field Office
Fernald Area Office**

P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



3882

SEP 19 2001

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0889-01

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD AUGUST 1, 2001
THROUGH AUGUST 31, 2001 INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 30, 2001**

This letter transmits the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Monthly Report for the period August 1, 2001 through August 31, 2001, including anticipated work for the period September 1 through September 30, 2001. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA).

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Reising

Enclosure: As Stated

SEP 19 2001

Mr. James A. Saric
Mr. Tom Schneider

-2-

DOE-0889-01

3882

cc w/enclosure:

R. Greenberg, EM-31, CLOV
N. Hallein, EM-31, CLOV
G. Jablonowski, USEPA-V, SRF-5J
D. Sarno, FCAB
V. Dastillung, FRESH
P. Dunn, FRESH
F. Hodge, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
D. Carr, Fluor Fernald, Inc./MS2
T. Hagen, Fluor Fernald, Inc./MS65-2
S. Hinnefeld, Fluor Fernald, Inc./MS31
B. Irvine, Fluor Fernald, Inc./MS28
R. McDonough, Fluor Fernald, Inc./MS80-3
T. Poff, Fluor Fernald, Inc./MS65-2
C. Sutton, Fluor Fernald, Inc./MS35
D. Whitaker-Sheppard, Fluor Fernald, Inc./MS31
ECDC, Fluor Fernald, Inc./MS52-7

2

3882

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from August 1 through August 31, 2001. The monthly report has been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996, and agreed to by USEPA and OEPA.

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

August 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Loaded 11,841 tons of material from waste pits
 - Shipped 120 railcars (UT42 and UT43) of material for disposal at Envirocare

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Load 10,713 tons of material from waste pits
 - Ship 120 railcars (UT44 and UT45) of material for disposal at Envirocare

**OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND
EXCAVATION PROJECT**

**Additional OU2 soils-related activities reported under OU5/Soils
Characterization and Excavation Project**

August 2001

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation Project (SCEP)
 - None
- Major Work Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Continued operation of the Bulk Debris Transfer Expansion Area
 - Continued construction of the Cell 1 cap
 - Continued breaking/crushing concrete in Area 3A
 - Began placement of Impacted Material in Cells 2 and 3

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

- Soil Characterization and Excavation Project (SCEP)
 - Area 1, Phase II
 - Submitted variances for Certification Sampling of the Equipment Wash Facility and the drainage line
 - Collected certification samples of the Equipment Wash Facility and the drainage line
 - Area 1, Phase III
 - Submitted the approved Final A1P3, Part 1 certification report to the Agencies
 - Area 2, Phase I
 - Received agency approval on the Response to Comments on the Integrated Remedial Design Package for the A2PI Perimeter
 - Submitted the Certification Design letter and PSP for Certification Sampling
 - Completed removal of Well House 13 and began removal of Basin 1 and perimeter impacted materials in the Southern Waste Units
 - Natural Resources
 - Continued efforts on the Prairie Grass and Burrowing Mammal Research projects for the OSDF Cap
 - Continued monitoring in the A1P1 Wetlands and A8P2 Restoration Project
 - Completed minor maintenance activities in certified and restored areas
 - Collected baseline ecological data to support future monitoring of restored areas.

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization and Excavation
 - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

- Major Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility
 - Operate Bulk Debris Material Transfer Area Expansion
 - Continue construction of Cell 1 Cap
 - Continue placement of impacted material in Cell 2 and 3
- Soil Characterization and Excavation
 - Area 1
 - Submit draft final CDL change pages for certification of the OSDF Equipment Wash footprint on or before September 29, 2001
 - Area 2
 - Submit the Final Integrated Remedial Design Package for the A2PI Perimeter on or before September 25, 2001
 - Complete the debris chasing excavation and removal of the turnaround area on or before September 14, 2001
 - Area 6
 - Submit Predesign Sampling Plan for the Fire Training Facility and the Solid Waste Landfill
 - Natural Resources
 - Submit responses to comments from the Agencies on the Ecological Research Annual Reports
 - Continue to revise the final Natural Resource Restoration Plan

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

August 2001

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Continued/Completed
 - Transition Work
 - Continued work on Pipe Bridge
 - Continued to glove bag Asbestos Containing Materials (ACM) and Asbestos Abatement
 - Reinstalled utilities to T-95 and T-130
 - Begin Heat Tracing and Insulation of T-95 lines
 - Continued Interior Transite, ACM and Equipment Removal in Building 3C
 - Plant 6
 - Area 1
 - Continued Equipment Removal, Interior Transite Removal and Ceiling Tile Removal

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

- Area 2
 - Continued Interior Miscellaneous Demolition
- Area 4
 - Began Release Cleaning
- Area 5
 - Began ACM Roof Removal
- Area 7
 - Began Release Cleaning
- Area 8
 - Began ACM Piping and Interior Dismantlement
 - Began Release Cleaning
- Facilities Shutdown
 - Continued Planning Work for Health and Safety Building, 53A
 - Began Planning Work for Buildings 64 and 65
 - Continue Plant 2/3 Construction Support

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Transition Work
 - Continue Pipe Bridge
 - Continue ACM
 - Plant 6
 - Area 2
 - Begin Interior Demolition Below Grade
 - Release Clean
 - Area 6
 - Begin Roof Removal
 - Area 7
 - Begin Transite Removal
 - Area 8
 - Begin Interior Dismantlement
 - Begin Release Cleaning
 - Facilities Shutdown
 - Continue Plant 2/3 Construction Support
 - Begin utility disconnects and removal of salvageable equipment in Vitrification Plant
 - Begin removal of salvageable equipment in Laundry

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

OPERABLE UNIT 4 - SILOS PROJECT

August 2001

- Enforceable Milestones Completed
 - The revised draft Remedial Action (RA) Work Plan for Radon Control System (RCS) Phase 1 Operation was submitted to the Agencies on August 16, 2001. The RA Work Plan was approved by U.S. EPA on August 20, 2001
- Major Work Initiated/Continued/Completed
 - Continued Due Diligence design reviews, reviews of vendors and subcontractors, and other AWR project transition activities. Material deliveries and preparations for resumption of construction activities took place
 - Presented briefing for the Agencies on August 15, 2001
 - Initiated informal external review and internal FEMP review of the Conceptual Design Package for the Silos 1 and 2 Project

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Major Work To Be Initiated/Continued/Completed
 - Begin draft revised Remedial Design (RD) Work Plan for the Silos 1 and 2 Project for submittal to the Agencies
 - Begin draft revised RD/RA Schedule for the Accelerated Waste Retrieval (AWR) Project for submittal to the Agencies
 - Complete Due Diligence review of the Radon Control System (RCS) design; continue Balance of Plant (BOP) Due Diligence review
 - Continue reviews of vendors and subcontractors, and other AWR Project transition activities
 - Continue material deliveries, and resume selected AWR Project construction activities
 - Incorporate comments from internal FEMP review, and informal external review, of the Conceptual Design Package for the Silos 1 and 2 Project
 - Initiate engineering studies to obtain necessary supplemental data to support Silos 1 and 2 Conceptual Design
 - Initiate design of the shipping/disposal container for treated Silos 1 and 2 material
 - Initiate Design Data Development testing to support Silo 3 Project design
 - Continue development of process flow diagrams and other Silo 3 Conceptual design activities

3882

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

August 2001

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for July to the Ohio EPA on August 15, 2001
 - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
 - Submitted the June 2001 Operating Report for the Re-Injection Demonstration on August 15 to DOE for transmittal to the Agencies, DOE submitted to the Agencies on August 22
 - Continued work on the technical memorandum to establish baseline groundwater conditions for OSDF Cells 1, 2, and 3. Met with the Agencies on August 23 to provide them with an update of the data elevation being conducted for the Technical Memorandum
 - Conducted a public meeting on August 23 on the Explanation of Significant Differences on the adoption of the Safe Drinking Water Act MCL for uranium into the OU5 ROD
 - Submitted the Responses to OEPA Comments on the Pumping Test Report, Pilot Plan Drainage Ditch Uranium Plume on August 16 to DOE for transmittal to the Agencies, DOE submitted to the Agencies on August 22
 - Submitted a Project Specific Plan (PSP) for installation of monitoring wells for OSDF cells 4-7 to DOE on August 8, DOE submitted the PSP to the Agencies on August 14
 - Completed review of revised treatment method for alleviating plugging in re-injection wells. Began using the revised treatment method at Injection Well 12 on August 27, 2001
 - Completed development of Waste Storage Area Extraction System - Phase I Well #28

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge monitoring Report to the OEPA covering August 2001
 - Meet the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001**

- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells
 - Continue construction of Waste Storage Area Extraction System - Phase I and South Field Extraction System - Supplemental Well Infrastructure
 - Continue to work on OSDF baseline technical memorandum for groundwater (Perched and Great Miami Aquifer)
 - Install monitoring wells for OSDF Cells 4 and 5
 - Install a multilevel monitoring well in the South Field

WASTE MANAGEMENT

August 2001

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Hazardous Waste Project
 - Completed removal of chemicals in MS-26 and MS-6
 - Surveyed 8 of 10 skids of bagged chemicals in Building 54B
 - Segregated unknowns into a safe configuration with flammable and corrosive chemicals onto separate skids
 - Continue to segregate RAD contaminated chemicals and free-release acceptable chemicals
 - Continue to collect MSDS's on inventoried chemicals
 - Scheduled Heritage shipment for week of September 10th
 - Inorganic Treatment Project
 - Continued development of work plan for processing broken Lead Acid Batteries and Elemental Lead and establishment of waste campaigns for inventory
 - Liquid Mixed Waste (Bulking) Project
 - Shipped Batch 10, Shipment 1, 2, 3 to the TSCA Incinerator
 - Continue working toward placement of Consolidation Tank in the Bulking Area for Batch 12 bulking efforts
 - Neutralization/Precipitation/Deactivation/Stabilization Project (NPDS)
 - Completed absorbent and compatibility determinations and SC&PCRD
 - Organic Treatment Project
 - Continue to revise TRB Package

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT AUGUST 1, 2001 THROUGH
AUGUST 31, 2001, INCLUDING ANTICIPATED WORK FOR THE PERIOD
SEPTEMBER 1 THROUGH SEPTEMBER 31, 2001

- Thorium Legacy Waste Project (TLWP)
 - Unpacked 25 drums and 16 boxes of thorium trash, generating 17 boxes to be shipped to NTS
 - Completed movement of Thorium Trash to Building 64/65
 - Completed set up of airlines to support Trash Sorting
 - Initiated Drum Punch fabrication
 - Continued evaluation options for alternate treatment and processing location to support Building 64/65 turnover to D&D
- Waste Minimization/Pollution Prevention
 - Finalized Sanitary Waste Disposal and Paper Recycling Statement of Work
 - Continued to revise Oil Recycling contract
 - Donated aluminum cans to Crosby Elementary

September 2001 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Hazardous Waste Project
 - Continue segregation of chemicals
 - Liquid Mixed Waste (Bulking) Project
 - Complete Batch 10 shipments
 - Develop Batch 11 applications for submittal to TSCA Incinerator/State of Tennessee
 - Complete consolidation tank location at bulking area and prepare for Batch 12 bulking activities
 - Organic Treatment Project
 - Begin overpacking of First Article Testing drums
 - Complete campaign development for current uncharacterized inventory
 - Thorium Legacy Waste Project (TLWP)
 - Continue sorting and packaging Thorium Trash
 - Wastewater Treatment Project
 - Continue activities for future staging/transfer wastewater treatment operations at Building 79
 - Waste Minimization/Pollution Prevention
 - Schedule photochemical shipment for Springdale Drafting